SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION

PART	A G	SENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	com	epleted in response to the <u>Federal Register Notice of $[1]2$ $[2]2$ $[8]8$ year</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule N/A
		(ii) Name of mixture as listed in the rule N/A
		(iii) Trade name as listed in the rule N/A
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule N/A
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_]-[_]
		Name of chemical substance N/A
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer 1
[_]	Imp	orter 2
	Pro	cessor
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
2,	<i>i</i>)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
<u>(</u>)	<i>∅</i>	90-89 0000 376
	Mark	(X) this box if you attach a continuation sheet.
-		•

1.03					are re				an "x/	'p" de	esig	nation	ass	oci	ated	with it
																ion 1.0
	No	•••••	•••••		•••••	••••	• • • • •	• • • • •	• • • • •	• • • •	• • • •	[_]	Go	to (quest	ion 1.0
1.04 <u>CBI</u> []	a.	under Circl Yes .	e the	de name appropr	iate re	feren spons	t than	that	liste	ed in	the	Feder	al R	egi:	ster	e it Notice?
	b.	Check	the a	propri	ate box	belo	w:									
		[_]	You ha	ive cho	sen to	notif	y you	cust	omers	of th	neir	repor	ting	ob.	ligat	ions
			Provi	le the	trade n	ame(s)		N/A							
									N/A							
		[_]	You ha	ive cho	sen to	repor	t for	your	custom	ers						
		[_]		of the i	mitted rule in											tive
1.05 <u>CBI</u>					e produ by you											f your
— [<u> </u>	Tra	de nam	e	• • • • • •	· · · · · · .	5855	534 E	lastan	6059	UIS	SO					
`'	Is	the tr	ade nam	e produ	uct a m	ixtur	e? Ci	rcle	the ap	propr	iate	resp	onse.	•		
																1
	No	• • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • •	• • • • •	• • • • •		• • • • •	(2
1.06					erson wl stateme			nsible	for	the c	ompl	etion	of t	his	form	n must
	"I l	nereby ered o	certif n this	y that, form is	to the comple	ete aı	nd acc	urate	. "							
	_Nor	mita (G. Call	ison E			The	mi	√ SIGN	ATURE	Cal	lian	<u>-</u> -	Q DA	/ Q7 / TE \$1	g9 GNED
	_Ch	ief Cor	ntrol E TITI	ngineer E	<u> </u>		(<u>916</u>	_) <u>T</u> i	645 E LEPHO I	- <u>3</u> NE N O	341 •		_			
[_] !	lark	(X) tl	his box	if you	ı attacl	n a co	ontinu	ation	sheet	•						·. , , , , , , , , , , , , , , , , , , ,

1.07 <u>CBI</u> []	Exemptions From Reporting It with the required information of within the past 3 years, and the for the time period specified are required to complete section ow required but not previously submissions along with your Section	on a CAIR his informing the rule on 1 of the y submitte	Reporting Form for the mation is current, accule, then sign the certinis CAIR form and provided. Provide a copy of	listed substance rate, and complete fication below. You de any information
	"I hereby certify that, to the information which I have not in to EPA within the past 3 years period specified in the rule."	ncluded i	n this CAIR Reporting Fo	orm has been submitted
	N/A NAME		SIGNATURE	DATE SIGNED
		,	`	3
	TITLE		TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
<u>CBI</u>	certify that the following state those confidentiality claims who "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other to a judicial or quasi-judicial prinformation is not publicly available would cause substantial harm to	to protection to protection messes measured by other chan discontinuous messes and the control of the control o	nave asserted. It the confidentiality of the information is persons (other than govery based on a showing) without my company's olsewhere; and disclosure	of the information, s not, and has not vernment bodies) by g of special need in consent; the
	N/A NAME	-	SIGNATURE	DATE SIGNED
	TITLE	(TELEPHONE NO.	
	Mark (X) this box if you attach			

PART	
1.09	Facility Identification
<u>CBI</u>	Name $[\overline{G}]\overline{L}\overline{A}\overline{D}\overline{D}\overline{D}\overline{I}\overline{N}\overline{G}\overline{D}\overline{B}\overline{E}\overline{A}\overline{N}\overline{D}\overline{D}\overline{D}\overline{D}\overline{D}\overline{D}\overline{D}\overline{D}\overline{D}D$
[_]	Address [6]0]1]]7]t]h]]S]T]R]E]E]T]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[<u>L]]]N]C]O]L]N]</u>]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$ \begin{bmatrix} \overline{C} \] \overline{A} \ \end{bmatrix} [\underline{9} \] \overline{5} \] \overline{6} \] \overline{4} \] \overline{8} \][\underline{} \] \underline{} \] \underline{}] \underline{}] $ State
	Dun & Bradstreet Number $\dots [0]2]-[9]0]4]-[3]0]5]6$
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $[\underline{2}]\underline{8}]\underline{2}]\underline{1}$
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [P]A]C]I]F]I]C]-]C]O]A S]T]-]B]L]D]G]-]P]R]O]D]U]C]T]
[_]	Address [3]0]0]1]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[S]A]C]R]A]M]E]N]T]O]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$\begin{bmatrix} \overline{C} \\ \overline{A} \end{bmatrix}$ $\begin{bmatrix} \overline{9} \\ \overline{5} \end{bmatrix} \overline{8} \overline{1} \overline{1} \overline{6} \overline{1} - [\underline{}] \underline{} \overline{1} \overline{1} \underline{} \overline{1} $
	Dun & Bradstreet Number
	Employer ID Number
[_]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name $[P]A]C]I]F]I]C]-[C]O]A]S]T]-[B]L]D]G]-[P]R]O]D]U]C]T$ Address $[3]O]O]I]-[I]-[S]T]R]E]E]T]-[J]-[J]-[J]-[J]-[J]-[J]-[J]-[J]-[J]-[J$
	$\begin{bmatrix} \overline{C} \\ \overline{A} \end{bmatrix}$ $\begin{bmatrix} \overline{9} \\ \overline{5} \end{bmatrix} \overline{8} \overline{1} \overline{1} \overline{1} \overline{6} \overline{1} - \overline{1} \overline{1} \overline{1} \overline{1} \overline{1} \overline{1} \overline{1} \overline{1}$
	Dun & Bradstreet Number $\dots [\overline{0}]\overline{2} - [\overline{9}]\overline{0}\overline{4} - [\overline{3}]\overline{0}\overline{5}\overline{6}$
1.12	Technical Contact
<u>CBI</u>	Name [N]0]R]M]I]T]A]
	[L]I]N]C]O]L]N] _ [] _ [] _ [] _ [] _ [] _ [] _ [] _
1.13	This reporting year is from
[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [N]O]T] A]P]P]L]I]C]A]B]L]E]]]]]]]]]]]]]]]]
ſJ	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_ [_]_]_]_]_][_]_]_]_]_]_ State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [N]O]T]] A P P L T L L L L L L L L L L L L L L L L
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]_]_]_]_ State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

BI —]	Classification	Quantity (kg/yr)
*	Manufactured	· <u>N/A</u>
	Imported	· _ N/A
	Processed (include quantity repackaged)	67,385 kg
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	. N/A
	For on-site use or processing	. N/A
	For direct commercial distribution (including export)	N/A
	In storage at the end of the reporting year	· _ N/A
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	. 10,056 kg
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	
	Processed as an article component (article producer)	• 67,385 kg
	Repackaged (including export)	·N/A
	•	
	In storage at the end of the reporting year	• <u>5,</u> 993 kg

[_] Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
<u>CBI</u>	
[_]	Year ending $[\overline{0}]\overline{3}][\overline{8}]\overline{7}$ Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed 59,352 kg
	Year ending $[0]3][8]6$ Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05 <u>CBI</u>	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
[_]	Continuous process
	Semicontinuous process
	Batch process
	RESPONSE NOT REQUIRED FOR TDI
[_]	Mark (X) this box if you attach a continuation sheet.

Se	emicontinuous process atch process				_
	atch process				_
Ва		• • • • • • • • • • • • • • • • • • • •			(2
			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	3
sı	ubstance. (If you are uestion.)	ame-plate capacity for a batch manufacture			
[_] Ma	anufacturing capacity			N/A	kg/yr
Pr	cocessing capacity			U_K	kg/yr
CBI vo	f you intend to increase anufactured, imported, ear, estimate the incre olume.	or processed at any ease or decrease base	time after your cur ed upon the reportin	rent corporate g year's produ	iction
[_]	-	Manufacturing Quantity (kg)	Importing Quantity (kg)	Process Quantity	_
An	nount of increase			N/A	
Am	nount of decrease			N/A	
 [] Ma	ark (X) this box if you				

2.09	listed substance substance durin	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the liste ours per
<u>CBI</u> []			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	257	8
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	N/A	N/A
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	N/A	N/A
2.10 <u>CBI</u> [_]		um daily inventory and average monthly inventor was stored on-site during the reporting year in		
	Maximum daily in	nventory	•	k
	Average monthly	inventory	•	k _{&}
	RESPONSE NOT RI	EQUIRED FOR TDI		
[_]	Mark (X) this bo	ox if you attach a continuation sheet.		

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or Impurities
U.K	U K	UK	UK	UK
<u> </u>				
		JACAN TO STATE OF THE STATE OF		

a.	b. % of Quantity	c.	d.
Product Types ¹	Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users
B	100%	0%	Н
<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent</pre>	/Accelerator/ er/Scavenger/	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica	cant/Ink and additicographic chemical n/Plating chemicals litives nls and additives
F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh	/Degreaser modifier/Antiwear ier esive and additives	- · · · -	chemicals and additives additives

2.13 <u>CBI</u> [_]	Expected Product Types Identify all product types which you expect to manufacture import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacture import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)				
	a.	b.	с.	d.	
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²	
	В	100%	0%	Н	
	<pre>"Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Add **Use the following code I = Industrial CM = Commercial</pre>	c/Accelerator/ cer/Scavenger/ c/Sequestrant c/Degreaser n modifier/Antiwear fier nesive and additives es to designate the CS = Cons	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify) type of end-users:	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier	
[_]	Mark (X) this box if yo	ou attach a continua	ition sheet.		

a.	b.	c.	d.
u.		Average %	
	1 1 1	Composition of	m
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users
Froduct Type	rnysical roim	In Final Hoddet	Bild-03er.
<u>N/A</u>	N/A	N/A	N/A
			4
¹ Use the following co	des to designate pro	duct types:	·
A = Solvent		L = Moldable/Castabl	e/Rubber and add
B = Synthetic reacta		M = Plasticizer	
C = Catalyst/Initiat	or/Accelerator/	N = Dye/Pigment/Colo	
Sensitizer		0 = Photographic/Rep	rographic chemi
D = Inhibitor/Stabil	izer/Scavenger/	and additives	4-5 4 5 4
Antioxidant		P = Electrodeposition	
E = Analytical reage		Q = Fuel and fuel ad	
F = Chelator/Coagula		R = Explosive chemic	
G = Cleanser/Deterge		S = Fragrance/Flavor	
H = Lubricant/Fricti	on modifier/Antiwear		
agent		U = Functional fluid	
I = Surfactant/Emuls	ifier	V = Metal alloy and	
J = Flame retardant	11 1 111/2	W = Rheological modi	iler
K = Coating/Binder/A	dhesive and additive	s X = Other (specify)	
² Use the following co		final product's physi	cal form:
A = Gas		stalline solid	
B = Liquid	F3 = Gra		
C = Aqueous solution	F4 = 0th		
D = Paste	G = Gel		
E = Slurry	H = Oth	er (specify)	
F1 = Powder			
³ Use the following co			
<pre>I = Industrial CM = Commercial</pre>	CS = Con	sumer er (specify)	
Cm = Commercial	n = 000	er (specify)	

2.15 CBI		le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments of	of the					
[_]	Truck		• • • • • • • • • • • • • • • • • • • •	1					
	Rail	carN/A	• • • • • • • • • • • • • • • •	2					
	Barge	Barge, Vessel							
	Pipe	lineN/A		4					
	Plane	e		5					
	0thei	(specify)	••••••	6					
2.16 <u>CBI</u> []	or pi of er	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for us nd use listed (i-iv).							
	i.	gory of End Use Industrial Products							
	1.	Chemical or mixture	NI / N	ka/vr					
		Article	•						
	ii.	Commercial Products	11/21	~6,) -					
		Chemical or mixture	N/A	kg/yr					
		Article							
	iii.	Consumer Products		_					
		Chemical or mixture	N/A	kg/yr					
		Article	N/A	kg/yr					
	iv.	0ther							
		Distribution (excluding export)	N/A	kg/yr					
		Export	N/A	_ kg/yr					
		Quantity of substance consumed as reactant	N/A	_ kg/yr					
		Unknown customer uses	N/A	_ kg/yr					

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 <u>CBI</u>	Specify the quantity purchased and the average price paid for the listed substance for each major source of supply listed. Product trades are treated as purchases. The average price is the market value of the product that was traded for the listed substance.						
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)				
	The listed substance was manufactured on-site.	N/A	N/A				
	The listed substance was transferred from a different company site.	N/A	N/A				
	The listed substance was purchased directly from a manufacturer or importer.	63,323	\$3.102				
	The listed substance was purchased from a distributor or repackager.	N/A	N/A				
	The listed substance was purchased from a mixture producer.	N/A	N/A				
3.02 CBI	Circle all applicable modes of transportation used to deliver the listed substance to your facility.						
[_]	Truck						
	Railcar 2						
	Barge, Vessel 3						
	Pipeline						
	Plane	• • • • • • • • • • • • • • • • • • • •					
	Other (specify)	• • • • • • • • • • • • • • • • • • • •	6				
[_]	Mark (X) this box if you attach a continuation sheet	•					

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars
		Hopper cars 5
		Tank trucks
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders N/A mmHg
		Tank rail cars mmHg
		Tank trucks N/A mmHg
l]	Marl	(X) this box if you attach a continuation sheet.

04 <u>I</u>	of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of average percent composition by weight of the listed substance in the mixture, an amount of mixture processed during the reporting year.						
_ 1	Trade Name	Supplier or <u>Manufacturer</u>	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)			
	N/A	N/A	N/A	N/A			

3.05 <u>CBI</u> [_]	State the quantity of the l reporting year in the form the percent composition, by	ss II chemical, or polymer, and	
,		Quantity Used (kg/yr)	$\%$ Composition by Weight of Listed Substance in Raw Material (specify \pm % precision)
	Class I chemical	67,385 kg	100%
		N/A	N/A
		N/A	N/A
	Class II chemical	N/A	N/A
		N/A	N/A
		N/A	N/A
	Polymer	N/A	N/A
		N/A	N/A
		N/A	N/A

SECTION 4 PE	HYSICAL/CHEMICAL	PROPERTIES
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Genera	al Instructions:							
If you	If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA mixture."							
notic	uestions 4.06-4.15, if ye that addresses the infinite mile in lieu of answering	formation requested, y	ou may submit a copy o	bel, MSDS, or other r reasonable				
PART	A PHYSICAL/CHEMICAL DAT	TA SUMMARY						
4.01 <u>CBI</u> []	Specify the percent purity for the three major 1 technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.							
[]		Manufacture	Import	Process				
	Technical grade #1	<u>N/A</u> % purity	N/A % purity	_50% purity				
	Technical grade #2	<u>N/A</u> % purity	<u>N/A</u> % purity	N/A% purity				
	Technical grade #3	N/A% purity	N/A % purity	<u>N/A</u> % purity				
	¹ Major = Greatest quant	tity of listed substan	ce manufactured, impor	ted or processed.				
4.02	Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when	ry formulation contain oped and an MSDS devel	ing the listed substan oped by a different so	ce. If you possess ource, submit your				

	Yes
	No 2
	Indicate whether the MSDS was developed by your company or by a different source.
	Your company 1
	Another source (2)
	Mark (X) this box if you attach a continuation sheet.
— ₁	Mark (x) this box if you attach a continuation sheet.

appropriate response.

4.03	Submit a copy or reasonable in that is provided to your cust formulation containing the li been submitted by circling the	tomers/users re isted substance	garding the . Indicate	listed sub	stance or any		
	Yes		• • • • • • • • • • • • • • • • • • • •			(
	No						
4.04	corresponding to each physical listed. Physical states for the time you import or begin	s the listed substance, circle all the applicable numbical state of the listed substance during the activity or importing and processing activities are determined in to process the listed substance. Physical states f					
<u>CBI</u>	manufacturing, storage, disponent final state of the product.	osal and transp	ort activit	ies are det	ermined using	the	
			Phy	sical State			
			~3	T	Liquified		
	Activity	Solid	Slurry	Liquid	Gas	Gas	

		Thysical State					
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas		
Manufacture	1	2	3	4	5		
Import	1	2	3	4	5		
Process	1	2	3	4	5		
Store	1	2	3	4	5		
Dispose	1	2	3	4	5		
Transport	1	2	3	4	5		

[_]	Mark	(X)	this	box	if you	attach	a	continuation	sheet.

Physic State			Manufacture	Import	Process	Store	Dispose	Transpor
Dust	<1 mic	con			N/A			
	1 to <5 micro	ons			N/A			
	5 to <10 micro	ons			N/A			
Powde	r <1 mic	on			N/A			
	1 to <5 micro	ons			N/A			***************************************
	5 to <10 micro	ons			N/A			
Fiber	<1 mici	on			N/A			
	1 to <5 micro	ns			N/A			-
	5 to <10 micro	ons			N/A			
Aeroso	ol <1 micr	on			N/A			
	1 to <5 micro	ons			N/A			
	5 to <10 micro	ns			N/A			

SECTION 5 ENVIRONMENTAL FATE

5.01	Ind	icate the rate constants for the following tr	ansformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	UK (1/M cm) at UK	nm_
		Reaction quantum yield, 6	<u> U К</u> at <u>U К</u>	nm
		Direct photolysis rate constant, k_p , at	<u>U K</u> 1/hr la	titude
	b.	Oxidation constants at 25°C:		
		For ¹ 0 ₂ (singlet oxygen), k _{ox}	UK	1/M hr
		For RO_2 (peroxy radical), k_{ox}	U K	1/M hr
	c.	Five-day biochemical oxygen demand, BOD_5	U K	mg/l
	d.	Biotransformation rate constant:		
		For bacterial transformation in water, $k_b \dots$	U K	1/hr
		Specify culture	U K	-
	e.	Hydrolysis rate constants:		
		For base-promoted process, k_B	U K	1/M hr
		For acid-promoted process, k_A	U K	1/M hr
		For neutral process, k_N	<u>U K</u>	1/hr
	f.	Chemical reduction rate (specify conditions)	U K	-
	g.	Other (such as spontaneous degradation)	UK	
			U K	

[__] Mark (X) this box if you attach a continuation sheet.

PART	ВЕ	PARTITION COEFFICIENTS	S		,			
5.02	a.	Specify the half-li	fe of the l	isted substan	ce in the	followi	ng medi	a.
		<u>Media</u>			Half-lif	e (speci	fy unit	<u>s)</u>
		Groundwater		∠1 year				
		Atmosphere		3.3 year	'S			
		Surface water		0.5 seco	nds to 3	days (ph	& temp	.)
		Soil		N.A.			21.24.84	
	b.	Identify the listed life greater than 24		s known trans	formation	products	s that	have a half-
		CAS No.	<u> 1</u>	Name	Half-l (specify			<u>Media</u>
		a. N.A.	3, 3' - d	iisocyanato-			in	
			4,4'-dime	thyl carbanil	i <u>de</u>	N.A.	in	H ₂ O
		b. N.A	2,2'-dime	thyl			in	
			3,3' diis	ocyanato carb	anilide	N.A.	in	H ₂ O
		c. N.A.	Higher TD	I - urea olic	omers	N.A.	in	H ₂ O
5.03	Spe	cify the octanol-wate	er partition	n coefficient	, K _{ow}	0.21		at 25°0
	Met	hod of calculation or	determina	tion	• • • • • • • • •	From Log	y P Val	ue
5.04	Spe	cify the soil-water p	eartition co	pefficient, K	d	N/A*		at 25°0
	Soi	l type	• • • • • • • • • •		• • • • • • • •	N/A		
5.05	Spe coe	cify the organic carb	on-water pa	artition	• • • • • • •	N/A*		at 25°(
5.06		cify the Henry's Law		I	••••••	N/A*		atm-m³/mole
	Mari	k (X) this box if you	attach a c	continuation	sheet.			

Bioconcentration Factor	<u>Species</u>	<u>Test¹</u>	
N/A	N/A	N/A	
 ¹ Use the following codes to des	signate the type of test:		
<pre>F = Flowthrough S = Static</pre>			

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

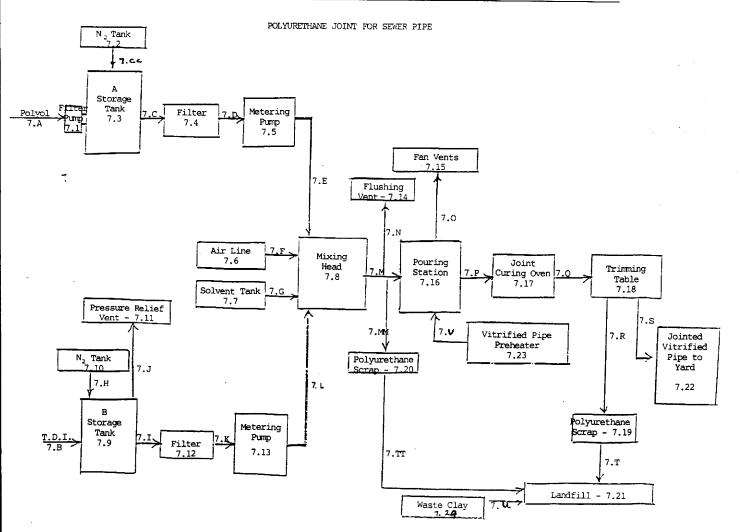
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

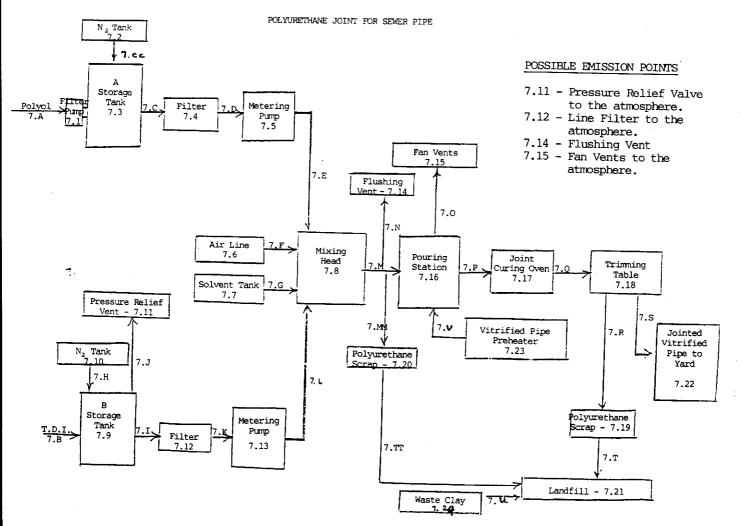
] Process type Polyurethane Joints Speed Sealant



In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type Polyurethane Joints Speed Sealant



[] Mark (X) this box if you attach a continuation sheet.

7.04 Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

1	Process	type	 POLYURETHANE	JOINT	SPEED	SEALANT

Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
7.1	Filter & Pump	Ambient	1300	Ca <u>rbon Steel</u>
7.2 & 7.10	N ₂ Tanks	A <u>mbient</u>	1810	Cr <u>-Mo Steel</u>
7.3 & 7.9	Holding Tanks	2 <u>7°C – 33°C</u>	1550	Carbon Steel
7.4 & 7.12	Filter	A <u>mbient</u>	Atmospheric	Carbon Steel
7.5 & 7.13	Metering Pumps	Ambient	1300	St <u>ainless Ste</u> el
7.6	Air Line	Ambient	<u>1550</u>	Ca <u>st Iron</u>
7.7	Holding Tanks	Ambient	<u>1550</u>	Ca <u>rbon Steel</u>
7.11	Release Vents	Ambient	N/A	Ga <u>lvanized</u>
7.8	Mixing Head	<u>Ambient</u>	2068	Ga <u>lvanized</u>
7.14	Flushing Vents	Ambient	Atmospheric	Galvanized
7.15	Fan Vents	Ambient	Atmospheric	Galvanized
7.16	Mold Pourings	Ambient	Atmospheric	C.I.
7.17	Curing Oven	60°C - 70°C	Atmospheric	Refractory Brick
7.18	Trimming Table	Ambient	Atmospheric	N/A
7.19 & 7.20	(Scrap)	Ambient	Atmospheric	N/A
7.21	(Landfill)	Ambient	Atmospheric	N/A
7.22	(Vitrified Clay)	60°C - 70°C	Atmospheric	N/A
7.23	Vitrified Clay Preheater	53°C	Atmospheric	N/A
7.24	(Waste Clay)	N/A	N/A	N/A

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

[]	Process type Polyurethane Joint Sealant								
	Process Stream ID Code	Process Stream _Description	Physical State ¹	Stream Flow (kg/yr)					
	7 <u>.A,7,C,7.D,7</u> .E	Polyol	OL	510,778					
	7 <u>.B.7.I.7.K.7.</u> L	T.D.I.	<u>OL</u> .	67,385					
	7 <u>.</u> F	Air	GU	UK					
	7 <u>-CC,7</u> -H	N_2	GU	U_K					
	7 <u>.G</u> ,7.N	Methylene Chloride	OL	14,487					
	7 <u>.M,7.MM,7.P</u>	Polyurethane	OL	<u>U K</u>					
	7 <u>.Q,7.R,7.S</u>	Polyurethane Joint	SO	523,401					
	7 <u>.T.7.TT</u>	Polyurethane Scrap	SO	54,772 (±)					
	7 . U	Waste_Clay	SO	<u> </u>					
	GC = Gas (condo GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous 1: OL = Organic 1:	iquid	and pressure) re and pressure)						

7.06 CBI	If a proces this questi	e each process stream i s block flow diagram is on and complete it sepa s for further explanati	provided for mo trately for each	re than one pro process type.	cess type, photocopy
[_]	Process typ	e Polyuretha	ane Joint Sealant	Ė	
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7.A,	7.C,7.D,7.E	Polyol	100%	N/A	N/A
7.B	,7.I,7.K,7.L	TDI	50%	Prepolymer	50%
7.CC	C & 7.H	Nitrogen Gas	100%	N/A	N/A
7.G,	,7.N	Methylene Chloride	100%	N/A	N/A
	7.MM	Polyurethane (L)	100%	N/A	N/A
	,7.Q, 7. S, & 7.T	Polyurethane (SO)	100%	N/A	N/A
7 . U		Raw Ground Clay	100%	N/A	N/A
 7.06	continued b	elow			
	Mark (V) +h	is box if you attach a	continuation she	et.	

7.06	(con	tini	l hai
/•U0 !	i con	CINI	uea)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	•	Component Additive Pa	s of ackage	_	Concentration (% or ppm)
1	-	N/A		_	N/A
			····	-	
2	-	And in Street Manager to Andrews		_	
				_	
3				_	
	•				
				_	
4				_	
				_	
_			<u> </u>	_	
5		**************************************		_	
² Use the follow	ing codes to	designate how	the conce	 ntration wa	s determined:
A = Analytical E = Engineerin	result g judgement/c	alculation			
Use the follow	ing codes to	designate how	the conce	ntration was	s measured:
V = Volume W = Weight					

<u>31</u>	process type.	type, photo	ocopy this qu ne instructio	estion and com	low diagram is nplete it sepa explanation of Sealant	rately for ea	ch process
	a.	b.	с.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimate Concen- trations (% or ppm
		NO RESI	DUAL TREATMEN	T BEING DONE			_
							-
05	continue	ed below					

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

Ω	.05	(continued)	ì
ο.		(CONTINUE a)	ŀ

8.05

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)				
1	N/A	N/A				
2						
3						
4						
_						
5						
⁴ Use the following codes to designate how the concentration was determined: A = Analytical result E = Engineering judgement/calculation						
continued below						
Mark (X) this box if	Mark (X) this box if you attach a continuation sheet.					

8.05	(continued)
0.00	/ CON CT110C0	•

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

<u>Code</u>	Method	Detection Limit $(\pm \text{ ug/l})$
1	N/A	N/A
3		
5		
6		

|--|--|--|

8.06	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more that process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)					re than one process		
CBI								
[_]	Process	Process type Polyurethane Joint for Sewer Pipe						
	a.	b.	с.	d.	е.		f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	Manag of Resid On-Site		Off-Site Management (per kg)	Changes in Management Methods
	7.TT	882	1D					
		007	10	54,772		N/A	N/A	N/A
	_7.T	882	1D J					
		e codes prov e codes prov						
[_]	Mark (X) this box i	f you attach	n a continuat	tion sheet.			

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

<u>D</u>	ata are Ma Hourly	intained for Salaried	Year in Which Data Collection	Number of Years Records
Data Element	Workers	Workers	Began	Are Maintained
Date of hire	X	X	1976	13
Age at hire	X	X	1976	13
Work history of individual before employment at your facility	x	X	1976	13
Sex	X	X	1976	13
Race	X	X	1976	13
Job titles	X	X	1976	13
Start date for each job title	X	X	1976	13
End date for each job title	X	X	1976	13
Work area industrial hygiene monitoring data	X	X	July, 1989	Started
Personal employee monitoring data	X	X	July, 1989	Started
Employee medical history	X	X	1976	13
Employee smoking history	_N/A	N/A	N/A	N/A
Accident history	X	X	1976	13
Retirement date	X	X	1976	13
Termination date	X	X	1976	13
Vital status of retirees	N/A	N/A	N/A	N/A
Cause of death data	_N/A	N/A	N/A	N/A

[_]	Mark	(X)	this	box	if	you	attach	а	. c	ontinuation	5	sheet.				

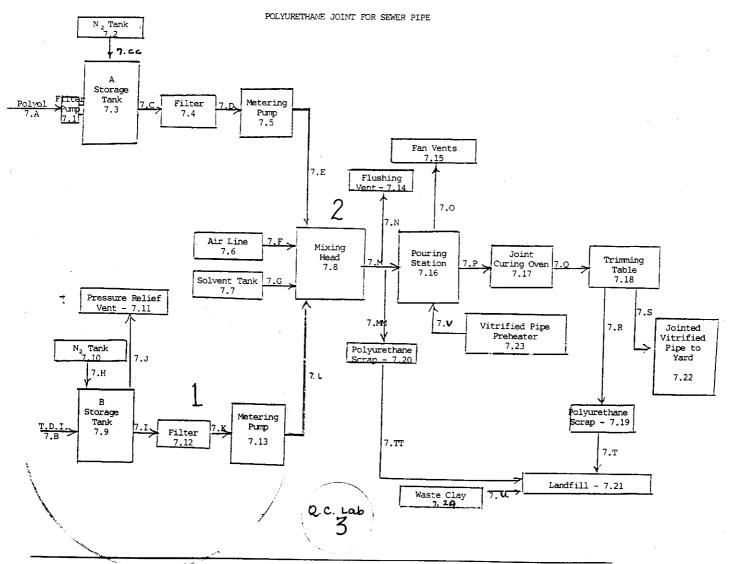
]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total	Total Worker-Hou
	Manufacture of the	Enclosed	N/A	N/A	N/A
	listed substance	Controlled Release	N/A	N/A	N/A
		0pen	N/A	N/A	N/A
	On-site use as reactant	Enclosed	N/A	N/A	N/A
		Controlled Release	N/A	N/A	N/A
		0pen	67,385	11	22,880
	On-site use as	Enclosed	N/A	N/A	N/A
	nonreactant	Controlled Release	N/A	N/A	N/A
		0pen	N/A	N/A	N/A
	On-site preparation	Enclosed	N/A	N/A	N/A
	of products	Controlled Release	N/A	N/A	N/A
		0pen	N/A	N/A	N/A

9.03 CBI	Provide a descriptive encompasses workers wh listed substance.	job title for each labor category at your facility that o may potentially come in contact with or be exposed to the
[_]		
	Labor Category	<u>Descriptive Job Title</u>
	A	556.130-010 - Leadman/Asst. Leadman
	В	556.686-018 - Mold Stripper
	С	556.687-026 - Pourer/Polyurethane
	D	556.678-014 - Mold (Cell Preparer)
	E	
	F	
	G	
	Н	
	I	
	J	
	Mark (X) this box if y	ou attach a continuation sheet.

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Polyurethane Joint Sealant



[] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come i additional areas not s	ork area(s) shown in question 9.04 that encompass workers who n contact with or be exposed to the listed substance. Add any hown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	Polyurethane Joint Sealant
	Work Area ID	Description of Work Areas and Worker Activities
	1	Filter & Metering Pump - Workers clean and replace parts.
	2	Metering Head & Pouring Station - Workers pour polyurethane &
	3	flash the line.
	4	Quality Control Lab - Workers test material prior to use.
	5	
	6	
	7	
	8	
	9	
	10	
[_]	Mark (X) this box if you	ou attach a continuation sheet.

9.06	each labor of come in cont	category at you cact with or be	ole for each wor or facility that e exposed to the	encom liste	passes worker d substance.	s who may pot Photocopy th	entially
CBI	-	-	for each proce			ea.	
()			yurethane Joint			3 2	
	work area	• • • • • • • • • • • • •		• • • • • •		and 2	
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ct	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
5	556 <u>.130-010</u>	3	<u>Direct Contac</u>	t	OL	A	260
5	556 <u>.686-018</u>	2	Inhalation		GU	E	260
5	556 <u>.687-026</u>	4	Inhalation		GU	E	_260
5	556.678-014	2	Inhalation		GU	E	260
	<u> </u>						
		***************************************	· · · · · · · · · · · · · · · · · · ·				
							<u> </u>
							
			-				
	¹ Use the fol	lowing codes to feeposure:	o designate the	physic	cal state of	the listed su	bstance at
	•	•		CV	Cludes on al		
	tempe	condensible at rature and pre	ssure)	AL =	Sludge or sl Aqueous liqu	id	
		uncondensible rature and pre			Organic liqu Immiscible l		
	inclu	des fumes, vap			(specify pha	ses, e.g.,	
	S0 = Solid		1		90% water, 1		
			o designate ave				
	B = Greater	ites or less than 15 minut	es, but not	•	exceeding 4 h		
		ng 1 hour than one hour	. but not		Greater than exceeding 8 h	4 hours, but	not
		ng 2 hours	,		Greater than		
	***************************************						·
[_]	Mark (X) thi	s box if you a	ttach a continu	ation s	sheet.		

<u>CBI</u>	Photocopy this que area.	stion and complete it separately f	or each process type and work
[_]	Process type	Polyurethane Joint Sealant	
	Work area	<u>S</u>	peedseal/Large Diameter
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	556.130-010	<u> </u>	U K
	556. 686-018	U K	U K
	556.687-026	U_K	U_K
	556-687-014	Ц К	
			

3	If you monitor works	er exposur	e to the li	sted substa	nce, compl	ete the to	llowing tabl
]							
	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Recor Maintained
	Personal breathing zone	NOTE I	NO. 1		A		
	General work area (air))				· · · · · · · · · · · · · · · · · · ·	
	Wipe samples	N/A	N/A	N/A	N/A	N/A	N/A
	Adhesive patches	N/A	N/A	N/A	N/A	N/A	N/A
	Blood samples	N/A	N/A	N/A	N/A	N/A	N/A
	Urine samples	N/A	N/A	N/A	N/A	N/A	N/A
	Respiratory samples	NOTE_N	O <u>. 2</u>				
	Allergy tests	N/A	N/A	N/A	N/A	N/A	N/A
	Other (specify)						
	Other (specify)						
	NOTE NO. 2 - Program Sure-Sp Other (specify)	m <u>will st</u> a pot TDI Ba		9 <u>, using Dr</u>	a <u>ger Tube</u>	sampling a	n <u>d GMD</u>
	NOTE NO. 2 - Medica	l <u>Testing</u>	program wil	l <u>start Jul</u>	y <u>, 1989.</u>		
	¹ Use the following o	codes to d	esignate who	o takes the	monitorin	g samples:	
	<pre>A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)</pre>	er		ohysicians a	and labora	tory.	

[_]	Sample Type	Sa	mpling and Analyt	ical Methodolo	ogy
	*Personal Breathing	Zone <u>- Workers wear</u>	TDI Badge.		
	*Working Area -	Air sampling	using TDI Drager	Tube.	
	*Program will start	July 1989.			
9.10	If you conduct person specify the following	onal and/or ambient and or each	air monitoring fo ach equipment typ	r the listed s e used.	substance,
<u>CBI</u> [<u> </u>]	Equipment Type	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number
	Н	A	Drager	6 hr	6724501
	D	A	GMD	8 hr.	550 Sure-Spo
	_				
	A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)	er tion tube with pump	ersonal air monit	oring equipmen	it types:
		odes to designate a	mbient air monito	ring equipment	types:
	<pre>F = Stationary moni G = Stationary moni</pre>	tors located within tors located within tors located at plan ng equipment (speci	facility nt boundary		
	² Use the following o		etection limit un	its:	
	A = ppm B = Fibers/cubic ce C = Micrograms/cubi				

CDI		
CBI		Frequency
[_]	Test Description	(weekly, monthly, yearly, etc.)
		_
	Respiratory Test	Yearly
		_

9.12	Describe the engineering conto the listed substance. Plancess type and work area.				
CBI	Process type	. Polymretha	no Joint Sealant		
,	Work area			1. s. 2	
	work area	Used	Year	Upgraded	Year
	Engineering Controls	(Y/N)	Installed	(Y/N)	Upgraded
	Ventilation:				
	Local exhaust	Y	1963	Y	1987
	General dilution	N/A	N/A	N/A	N/A
	Other (specify)				
	Installation of Fans	Y	1963	Y	1988
	Vessel emission controls	Y	1963	У	198 9
	Mechanical loading or packaging equipment	N/A	N/A	N/A	N/A
	Other (specify)				

9.13 CBI	Describe all equipment or process modifications you have m prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modif the percentage reduction in exposure that resulted. Photo complete it separately for each process type and work area	ion of worker exposure to ication described, state copy this question and
 [_]	Process type Polyurethane Joint Sealant	
	Work area	1 and 2
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	Installation of two more exhaust fans.	50%
	Added Portable Oscillating Fans.	50%
	•	

9.14	in each work area	a in order to reduce or eliminat	pment that your workers wear or use te their exposure to the listed to it separately for each process typ
CBI			
[_]	Process type	···· Polyurethane Joint Seala	ant
	Work area	••••••	<u>1 and 2</u>
			Wear or Use
		Equipment Types	(Y/N)
		Respirators	N
		Safety goggles/glasses	У
		Face shields	N
		Coveralls	Y
		Bib aprons	N
		Chemical-resistant gloves	Y
		Other (specify)	

9.15	process respirat tested,	ers use respirat type, the work fors used, the a and the type an it separately	areas where verage usage d frequency	the respirat, whether or of the fit t	ors are us	sed, the type respirators w	of ere fit
<u>CBI</u>							
[_]	Process	type	Polyuretha	ne Joints Se	alant		
	Work Area	Respir Typ		Average Usage ¹	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
		NONE USE)				
	A = Dai $B = Wee$ $C = Mon$ $D = Onc$ $E = Oth$ ² Use the	kly				t:	

PART	E WORK PRACTICES								
9.19 <u>CBI</u>	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.								
[_]	Process type Polyurethane Joints for Sewer Pipe								
	Work area								
	1. Yearly medical testing:	a. Respiratory	Test						
	2. Only authorized trained	d personnel handl	es TDI.						
	3. Warning signs with proc	redures are attac	ched to the ta	nk.					
	4. All employees working a	at the pouring st	ation or pit	wear TDI Bado	ies.				
	5. Extra exhaust fans and		_	•					
9.20	Indicate (X) how often you leaks or spills of the lis separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question ar					
	Work area								
	Housekeeping Tasks	Less Than Once Per Day		3-4 Times Per Day	More Than 4 Times Per Day				
	Sweeping		X						
	Vacuuming	N/A							
	Water flushing of floors	N/A	···						
	Other (specify)								
[_]	Mark (X) this box if you a	ttach a continua	tion sheet.						

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?							
	Routine exposure							
	Yes RESPONSE NOT REQUIRED 1							
	No							
	Yes 1							
	No 2							
	If yes, where are copies of the plan maintained?							
	Routine exposure:							
	Emergency exposure:							
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.							
	Yes							
	No 2							
	If yes, where are copies of the plan maintained? On file at site							
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.							
	Yes							
	No 2							
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.							
	Plant safety specialist							
	Insurance carrier 2							
	OSHA consultant							
	Other (specify) 4							
[_]	Mark (X) this box if you attach a continuation sheet.							

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A GENERAL INFORMATION						
10.01	Where is your facility located? Circle all appropriate responses.					
<u>CBI</u>						
[_]	Industrial area					
	Urban area 2					
	Residential area					
	Agricultural area4					
	Rural area 5					
	Adjacent to a park or a recreational area 6					
	Within 1 mile of a navigable waterway					
	Within 1 mile of a school, university, hospital, or nursing home facility					
	Within 1 mile of a non-navigable waterway9					
	Other (specify)10					
[]	Mark (X) this box if you attach a continuation sheet.					

	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.										
	Latitude		38	°	32	_′	24 "				
	Longitude	••••••	121	°	10	_'	12 "				
	UTM coordinates Zone	Township 12, Northi	ng Rang	<u>e 6</u> ,	Easti	ing <u>M.</u>	D.B. & I				
10.03	If you monitor meteorological condithe following information.	ditions in the vicini	ty of y	our f	acilit	ty, pı	ovide				
	Average annual precipitation					inch	es/year				
	Predominant wind direction	_				-					
	RESPONSE NOT REQUIRED FOR TDI					-					
10.04	Indicate the depth to groundwater	below your facility.			***************************************						
	Depth to groundwater										
						mete	rs				
	RESPONSE NOT REQUIRED FOR TDI					_ mete	rs				
10.05 CBI		indicate (Y/N/NA) al	l routi	ne re	leases or a d	oft	he				
	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment	indicate (Y/N/NA) alnt. (Refer to the in	l routi structi ronment	ne re	or a d	of t	he				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.)	indicate (Y/N/NA) alnt. (Refer to the in	l routi structi ronment Wa	ne re ons fo	or a d	of tefini	he tion of				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity	indicate (Y/N/NA) alnt. (Refer to the in Envi	l routi structi ronment Wa	ne re ons fo al Re ter	or a d	of tefini	he tion of				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A	l routi structi ronment Wa N,	ne re ons fo al Re ter	or a d	of tefini	he tion of and				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A	l routi structi ronment Wa N,	ne re ons fo al Re ter /A	or a d	e of telefini	he tion of and J/A				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A	l routi structi ronment Wa N, N,	ne re ons fo al Re ter /A	or a d	e of telefini	he tion of and J/A J/A				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A Y N/A	l routi structi ronment	ne reons for al Reiter /A /A	or a d	e of telefini	he tion of and J/A N				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A Y N/A Y N/A	l routi structi ronment Wa N, N, N,	ne reons for al Reiter	or a d	e of the left of t	he tion of and N/A N/A N/A N/A				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A Y N/A Y N/A Y N/A Y N/A	l routi structi ronment Wa N, N, N,	ne recons for al	or a d	e of the left of t	he tion of and N/A				
<u>CBI</u>	RESPONSE NOT REQUIRED FOR TDI For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	indicate (Y/N/NA) alnt. (Refer to the in Envi Air N/A N/A Y N/A Y N/A Y N/A Y N/A	l routi structi ronment Wa N, N, N,	ne recons for al	or a d	e of the left of t	he tion of and N/A				

10.06 CBI	Provide the following information for the listed of precision for each item. (Refer to the instran example.)			ınd
[_]	Quantity discharged to the air	UK	kg/yr <u>+</u>	%
	Quantity discharged in wastewaters	N/A	kg/yr ±	%
	Quantity managed as other waste in on-site treatment, storage, or disposal units	N/A	kg/yr ±	%
	Quantity managed as other waste in off-site treatment, storage, or disposal units	N/A	kg/yr <u>+</u>	_ %

Process type Polyurethane Joint Sealant							
Stream ID Code	Control Technology	Percent Efficie					
N/A	N/A	N/A					
							

PART B RELEASE TO AIR							
10.09 <u>CBI</u> [_]	substance in residual tre	Emissions Identify each emission point source containing the listed terms of a Stream ID Code as identified in your process block or eatment block flow diagram(s), and provide a description of each point not include raw material and product storage vents, or fugitive emissions,, equipment leaks). Photocopy this question and complete it separately ocess type.					
	Process type	Polyurethane Joints Sealant					
	Point Source ID Code	Description of Emission Point Source					
	7.J	Pressure Relief Vent					
	7.N	Flushing Vents					
	7.0	Fan Vent					
	_	box if you attach a continuation sheet.					

10.10

³Duration of emission at any level of emission ²Frequency of emission at any level of emission Use the following codes to designate physical state at the point of release: G = Gas; V = Vapor; P = Particulate; A = Aerosol; O = Other (specify) Emission (min/event) Duration Maximum Rate =

⁴Average Emission Factor — Provide estimated (± 25 percent) emission factor (kg of emission per kg of production of listed substance)

Point Source ID Code	Stack <u>Height(m)</u>	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) ²	Vent Type
7. J	7.3m	.02m	27°C	U K	6.5m	22.8m	V
7.N	7.3m	21m	27°C	U K	6.5m	22.8m	V
7.0	7.3m	28m	27°C	<u> U K</u>	6.5m	22.8m	V
7.0	5.1m	.28m	27°C	UK			Н
							
							
							
	-						
¹ Height o	f attached	or adjacent	building				
² Width of	attached o	or adjacent l	building				
³ Use the	following o	codes to desi	ignate vent	type:			
H = Hori V = Vert							

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

D/	ART	C	FUGITIVE	PMTCCTONC
E 2	T/L		T LIKEL L I V F.	CHILOGIUNG

CBI	types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.										
[_]	Process type Poly				···						
	Percentage of time per year type	that the li	sted sub	stance is	exposed	to this p	rocess 100 %				
	••	Number	of Compo	nents in	Service by	y Weight 1	Percent am				
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%				
	Pump seals ¹										
	Packed	3	N/A	N/A_	N/A	. 2	N/A				
	Mechanical	N/A	N/A	N/A	N/A	N/A	N/A				
	Double mechanical ²	N/A	N/A	N/A	N/A	N/A	N/A				
	Compressor seals ¹	N/A	_N/A_	N/A_	_N/A_	N/A	N/A				
	Flanges	N/A	_N/A_	N/A_		N/A	N/A				
	Valves		·								
	Gas ³	N/A	N/A	N/A	N/A_	N/A	N/A				
	Liquid	N/A	_N/A_	N/A_	N/A	N/A_	4				
	Pressure relief devices ⁴ (Gas or vapor only)	1	_N/A_	N/A_	N/A_	_N/A_	N/A				
	Sample connections										
	Gas	N/A	N/A	N/A	N/A_	N/A	N/A				
	Liquid	1	N/A	N/A	N/A	N/A	N/A				
	Open-ended lines ⁵ (e.g., purge, vent)										
	Gas	N/A	N/A	N/A	N/A	N/A	N/A				
	Liquid	N/A	_N/A_	N/A_	N/A	N/A	N/A				
	¹ List the number of pump and compressors	compressor	seals, r	ather tha	n the num	ber of pu	mps or				

Mark (X) this box if you attach a continuation sheet.

10.13	(continued)											
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively											
	³ Conditions existing in the valve during normal operation ⁴ Report all pressure relief devices in service, including those equipped with control devices ⁵ Lines closed during normal operation that would be used during maintenance operations											
10.14 <u>CBI</u>												
	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel ¹	c. Control Device	d. Estimated Control Efficiency ²								
	1	∠ 5%	None	UK								
	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)											
	The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions											
[_]	Mark (X) this box if you at	tach a continuation	sheet.									

Process type			Polyurethan	e Joint for	Sewer Pipe
Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device		Repairs Initiated (days after detection)	Repairs Completed (days afte initiated)
Pump seals					
Packed	UK	0	UK	Same Day	Same Day
Mechanical	N/A	N/A	N/A	N/A	N/A
Double mechanical	N/A	N/A	N/A	N/A	N/A
Compressor seals	N/A	N/A	N/A	N/A	N/A
Flanges	N/A	N/A	N/A	N/A	N/A
Valves	,				
Gas	N/A	N/A	N/A	N/A	N/A
Liquid	N/A	N/A	N/A	N/A	N/A
Pressure relief devices (gas or vapor only)	U K	0	U K	Same Day	Same Day
Sample connections					
Gas	N/A	N/A	N/A	N/A	N/A
Liquid _	N/A	N/A	N/A	N/A	N/A
Open-ended lines					
Gas	N/A	N/A	N/A	N/A	N/A
Liquid	N/A	N/A	N/A	N/A	N/A

Mark	CBI	liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Operat-													
ck (X) thi		Vessel Type		Composition of Stored Materials ³	Throughput (liters per year)	Vessel Filling Rate (gpm)				Volume	Vessel Emission Controls	Flow		Control Efficiency (%)	Basis for Estimate
ω		<u>H</u>	UK	100%	UK	23	30	1.06	1.23	1699	Press. R	l.UK	1.76	UK	C
box if		<u>H</u>	_UK	_100%	UK	23	90	1.22	3.96	4163	5 <u>Press.</u> R	el.UK	1.76	UK	C
you								-				-			
atta										-					
ich a							-						-		
con							****								
tinuation sheet.		Lise the following codes to designate vessel type: F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof SCIF = External floating roof SCIF = Indicate pressure vessel (indicate pressure rating) SCIF = Indicate filled seal, primary SCIF = Indicate fi											s:		

GLADDING MCBEAN

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